

Ag. Waste Application and Excavated Ponds
Edmunds County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation.)

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Ba: Bearden-----	85	Somewhat limited Depth to saturated zone	0.84	Somewhat limited Slow refill Cutbanks cave Deep to water	0.43 0.10 0.07
Bc: Bowbells-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Cresbard-----	30	Somewhat limited Restricted permeability Sodium content	0.89 0.18	Somewhat limited Slow refill Deep to water Cutbanks cave Salty water	0.95 0.90 0.10 0.01
BoA: Bowdle-----	85	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
BoB: Bowdle-----	90	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
BrA: Bryant-----	79	Not limited		Very limited Deep to water	1.00
BrB: Bryant-----	82	Not limited		Very limited Deep to water	1.00
BrC: Bryant-----	85	Not limited		Very limited Deep to water	1.00
BvA: Bryant-----	80	Not limited		Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
BxB: Bryant-----	55	Not limited		Very limited Deep to water	1.00
Grassna-----	25	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
Dv: Divide-----	90	Very limited Filtering capacity Depth to saturated zone	1.00 0.84	Very limited Cutbanks cave Deep to water	1.00 0.07
EdE: Edgeley-----	80	Very limited Slope Droughty Depth to bedrock	1.00 0.94 0.42	Very limited Deep to water	1.00
GP: Orthents, Gravelly--	100	Very limited Filtering capacity Droughty Leaching limitation	1.00 0.71 0.45	Very limited Deep to water	1.00
Gr: Grassna-----	90	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
He: Heil-----	85	Very limited Restricted permeability Depth to saturated zone Ponding Salinity Runoff limitation	1.00 1.00 1.00 0.50 0.40	Somewhat limited Salty water Slow refill Cutbanks cave	0.50 0.30 0.10
LeA: Lehr-----	80	Very limited Filtering capacity Droughty	1.00 0.69	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
LeB: Lehr-----	80	Very limited Filtering capacity Droughty	1.00 0.69	Very limited Deep to water	1.00
LhB: Lehr-----	50	Very limited Filtering capacity Droughty	1.00 0.69	Very limited Deep to water	1.00
Bowdle-----	30	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Lt: Letcher-----	90	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 0.82 0.40 0.01	Very limited Deep to water	1.00
Lv: La Prairie-----	50	Very limited Flooding	1.00	Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
Ranslo-----	44	Very limited Restricted permeability Depth to saturated zone Sodium content Flooding Runoff limitation	1.00 1.00 0.92 0.60 0.40	Somewhat limited Slow refill Cutbanks cave Salty water Deep to water	0.95 0.10 0.01 0.01
M-W: Miscellaneous Water-	100	Not rated		Not rated	

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Mb: Parnell-----	95	Very limited Restricted permeability Ponding Depth to saturated zone Leaching limitation	1.00 1.00 1.00 0.50	Very limited Slow refill Cutbanks cave	1.00 0.10
MdA: Mondamin-----	82	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
MdB: Mondamin-----	80	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Mh: Mondamin-----	55	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Heil-----	25	Very limited Restricted permeability Depth to saturated zone Ponding Salinity Runoff limitation	1.00 1.00 1.00 0.50 0.40	Somewhat limited Slow refill Salty water Cutbanks cave	0.95 0.50 0.10
NmA: Niobell-----	42	Very limited Restricted permeability Sodium content	1.00 0.82	Somewhat limited Slow refill Deep to water Cutbanks cave Salty water	0.95 0.90 0.10 0.01
Miranda-----	30	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Slow refill Deep to water Salty water Cutbanks cave	1.00 0.90 0.50 0.10

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NpB: Niobell-----	35	Very limited Restricted permeability Sodium content	1.00 0.82	Somewhat limited Slow refill Deep to water Cutbanks cave Salty water	0.95 0.90 0.10 0.01
Noonan-----	30	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 0.82 0.40 0.01	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.90 0.10 0.01
Or: Orthents, Loamy-----	80	Not rated		Not rated	
Pa: Parnell-----	85	Very limited Restricted permeability Ponding Depth to saturated zone Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.95 0.10
Rh: Ranslo-----	45	Very limited Restricted permeability Depth to saturated zone Sodium content Flooding Runoff limitation	1.00 1.00 0.92 0.60 0.40	Somewhat limited Slow refill Cutbanks cave Salty water Deep to water	0.95 0.10 0.01 0.01
Harriet-----	30	Very limited Restricted permeability Depth to saturated zone Sodium content Flooding Salinity	1.00 1.00 1.00 0.60 0.50	Somewhat limited Salty water Slow refill Cutbanks cave	0.50 0.30 0.10

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Rn: Regan-----	82	Very limited Depth to saturated zone Flooding Filtering capacity Salinity	1.00 1.00 1.00 0.01	Very limited Cutbanks cave	1.00
Sp: Spottswood-----	85	Very limited Filtering capacity	1.00	Very limited Cutbanks cave Deep to water	1.00 0.81
TaB: Tally-----	85	Not limited		Very limited Deep to water	1.00
TbB: Temvik-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Bryant-----	35	Not limited		Very limited Deep to water	1.00
TgB: Temvik-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Grassna-----	30	Not limited		Very limited Deep to water	1.00
TgC: Temvik-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Grassna-----	25	Not limited		Very limited Deep to water	1.00

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Tn: Tonka-----	50	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
Nishon-----	40	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
VdC: Vida-----	90	Not Rated Not Rated Restricted permeability Low adsorption Cobble content Slope	1.00 1.00 1.00 0.04	Very limited Deep to water	1.00
VwC: Vida-----	45	Not Rated Not Rated Restricted permeability Low adsorption Cobble content Slope	1.00 1.00 1.00 0.37	Very limited Deep to water	1.00
Williams-----	35	Somewhat limited Slope Restricted permeability	0.37 0.30	Very limited Deep to water	1.00
VzE: Vida-----	45	Not Rated Not Rated Slope Restricted permeability Low adsorption Cobble content	1.00 1.00 1.00 1.00	Very limited Deep to water	1.00

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Zahill-----	30	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
W: Water-----	100	Not rated		Not rated	
WaD: Wabek-----	90	Very limited Filtering capacity Droughty Slope Leaching limitation	1.00 1.00 0.84 0.45	Very limited Deep to water	1.00
WbC: Bowdle-----	35	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Wabek-----	35	Very limited Filtering capacity Droughty Leaching limitation Slope	1.00 1.00 0.45 0.37	Very limited Deep to water	1.00
WnB: Williams-----	65	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Bowbells-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
WnC: Williams-----	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Bowbells-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00

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WtA: Williams-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Bowbells-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Nishon-----	15	Very limited		Somewhat limited	
		Restricted permeability	1.00	Slow refill	0.30
		Depth to saturated zone	1.00	Cutbanks cave	0.10
		Ponding Leaching limitation	1.00 0.50		
WtB: Williams-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Bowbells-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
WvC: Williams-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Bowbells-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00

